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(54) BIOCHEMICAL PRODUCTION OF OPTICALLY ACTIVE CHRYSANTHEMUM-MONOCARBOXYLIC ACID

(57)Abstract:

PURPOSE: An esterase originating from a microorganism such as Candida or Penicillium is allowed to act on (\pm) -chrysanthemum-monocarboxylic acid to enable optical resolution into optically active chrysanthemum monocarboxylic acid and the antipode ester with industrial advantage.

CONSTITUTION: An esterase produced by a microorganism is allowed to act on (\pm) -chrysanthemum-monocarboxylic acid ester. The esterase is produced by a microorganism in Candida, Penicillium, Rhizopus, Trichoderma, Micrococcus, Enterobacter, Pediococcus, Chromobacterium, Mycobacterium, Brevibacterium or Streptomyces and has an ability to effect asymmetric hydrolysis of (\pm) -chrysanthemum-monocarboxylic ester. After completion of the reaction, the product is collected by solvent extraction, column chromatography or the like.

LEGAL STATUS

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